Clarke®

ELECTRIC FAN HEATERS

Devil 6003, 6005, 6009 & 6015

Part Nos: 6925220, 6925225, 6925230 & 6925235

OPERATING & MAINTENANCE INSTRUCTIONS

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INTRODUCTION

Thank you for purchasing this CLARKE Electric Fan Heater.

Please read this manual thoroughly and follow the instructions carefully. Before attempting to use the heater, thoroughly familiarise yourself with the heater & its operation. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to the heater giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

ENVIRONMENTAL PROTECTION

Do not dispose of this product with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment, at a recognised disposal facility.

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GENERAL SAFETY RULES

1) WORK AREA

1. These heaters are for INDOOR USE ONLY.
2. Do not expose the heater or power cable to rain or wet conditions. Any water entering the heater will increase the risk of electric shock. DO NOT use this heater in a bathroom, shower room, in the vicinity of a swimming pool, or any wet environment.
3. NEVER locate the heater near combustible materials such as curtains, furniture etc. Allow at least 1 metre clearance.
4. DO NOT locate the heater close to an adjacent wall or ceiling. Allow a distance of at least 1 metre from a wall or ceiling. Avoid placing the heater directly below socket outlets.
5. Take care to ensure that the grille cannot be blocked by curtains or other fabrics.
6. Do not operate fan heaters in explosive atmospheres such as in the presence of flammable liquids, gases or dust such as in a paint spray booth or any explosive environment. Electric motors create sparks which may ignite dust or fumes.
7. Never place the heater on a movable vehicle where it could be tipped over.
8. Do not allow the heating elements to become covered with dust which could become a fire hazard. If used in a dusty workplace it should be cleaned as described under Cleaning and Maintenance.
9. NEVER touch the heater element for at least 15 minutes after switching off.
10. DO NOT leave the heater unattended.
11. If children are present always use with a fireguard.
12. Store the fan heater out of the reach of children and do not allow persons unfamiliar with these instructions to operate this appliance.
13. Do not use this heater with a programmable timer used to switch it on automatically.

2) ELECTRICAL SAFETY

1. Electrical appliances must match the power outlet. Never modify the plug in any way. Do not use adaptor plugs with earthed (grounded) appliances. Correct plugs and outlets will reduce the risk of electric shock.
2. Do not abuse the electrical cable. Never use the cord for pulling or unplugging the heater. Keep the cable away from sources of heat, oil, sharp edges or moving parts. Damaged or tangled cables increase the risk of electric shock.

3. Keep the mains cable well away from machines and ensure an adequate electrical supply is close at hand so that the operation is not restricted by the length of the cable.
4. ALWAYS disconnect from the mains supply before moving the heater or performing any maintenance tasks.
5. ALWAYS use ONLY in an upright position.
6. Inspect the mains cable regularly for signs of damage. DO NOT use if it is damaged, and ALWAYS keep it away from the source of heat.
7. Check the fan heater for damage before use. DO NOT use if the heater elements are damaged or broken. Any damage should be properly repaired or the part replaced. If in doubt, **DO NOT** use the machine. Consult your local dealer.

3) SERVICE & REPAIRS

1. When necessary, have your appliance repaired by a qualified person using identical replacement parts. This will ensure that the safety of the appliance is maintained.

   Additionally, please keep these instructions in a safe place for future reference.

ELECTRICAL CONNECTIONS

DEVIL 6003 (3KW) HEATER UNIT

This model is provided with a 13 amp BS 1363 plug, fitted with a 13amp fuse and MUST be connected to a standard, 230 Volt (50Hz) electrical supply, preferably through an approved plug, or a suitably fused isolator switch.

WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT: The wires in the mains lead should be wired up in accordance with the following colour code:

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

As the colours of the flexible cable of this appliance may not correspond with the coloured markings identifying terminals in your plug, proceed as follows:

- Connect the GREEN & YELLOW coloured cord to the plug terminal marked with a letter E or Earth symbol "⏚" or coloured GREEN or GREEN & YELLOW.
- Connect the BROWN coloured cord to the plug terminal marked a letter "L" or coloured RED.
- Connect the BLUE coloured cord to the plug terminal marked a letter "N" or coloured BLACK

If this appliance is found to be fitted with a plug which is moulded on to the electric cable (i.e. non-rewireable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from your local Clarke dealer or most electrical stockists.

FUSE RATING

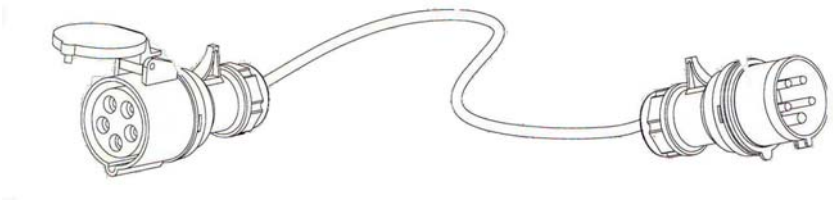
The fuse in the plug must be replaced with one of the same rating and this replacement must be ASTA approved to BS1362.

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD).

DEVIL 6005 (5KW), DEVIL 6009(9KW) AND DEVIL 6015(15KW) UNITS

These machines MUST be connected to a 400 Volt, 3 PHASE 50Hz supply through a suitably fused isolator switch. It cannot be operated from a single phase supply.

The user should purchase a suitable connecting lead as shown in the diagram, which is compatible with the appliance socket. The unit requires 5 pins including a master earth pin, and is suitable for AC 380/415v, 50/60Hz with a capacity of 16A/6h (Devil 6005 and 6009) or 32A/6h (Devil 6015) and rated at IP44 class or better insulation. A length of 2-3 metres is recommended as giving mobility to the appliance but without becoming a trip hazard.



The plug incorporates a hood which will secure the cable in position when engaged with the appliance.

If in any doubt, consult a qualified electrician. DO NOT attempt any electrical repairs yourself.

OPERATION

The Devil range of fan assisted electric heaters are suitable for household (Devil 6003 only) or workshop/factory use. They incorporate a thermostat which detects the temperature of the room air and controls the heater to maintain a pre-selected temperature between 0 & 40°C. A manually reset thermal cutout is provided for safety in the event of overheating on the 6005, 6009 & 6015 models. The fan motor runs independently of the thermostat and continues running after the heating element has been switched off.

With the heater suitably sited (ensure you comply with all safety precautions), switch the heater ON to the chosen setting as follows:

3 KW HEATERS

The 3kw heater has 3 running speeds for the fan incorporating 2 settings for both of the heating elements once the fan is set running. The other control is a progressive thermostat which is rotated through 270 deg. A cutout is used to maintain a constant pre-set temperature.

3-position fan speed control

thermostatic temperature control

When using the heater to warm a cold room, first turn the thermostat to MAX and run the heater on full power until the room temperature reaches the required value, then turn the thermostat anti-clockwise until it switches off.

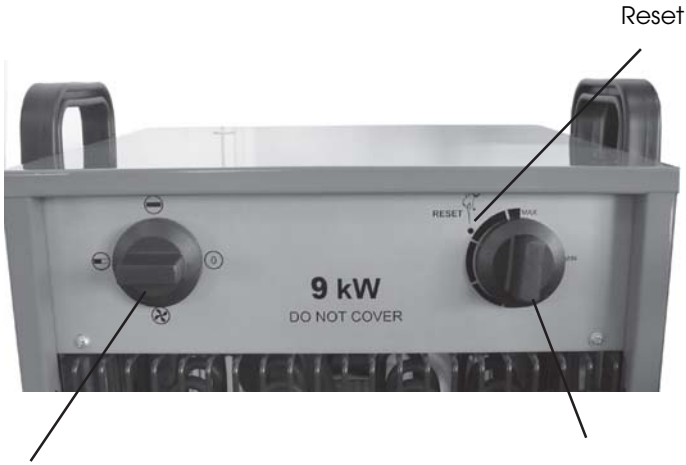
The thermostat will then switch the heater on and off automatically to control the room temperature according to the pre-set value, maintaining a constant room temperature. The 3kw unit is fitted with a self-resetting thermal cutout.

When using the heater for the first time a slight emission of smoke may be noticed. This is quite normal and soon stops. It is caused by residual traces of oil remaining on the element from production.

After use, turn the thermostat to the OFF position and turn the selector switch to the Fan Only position, and leave the unit to cool down for a couple of minutes.

5KW, 9KW &15KW HEATERS

The 5 & 9kw units have a three position twist control for FAN only, and FAN plus either half or full heat output. The 15kw unit has a four position control;- FAN only, FAN + 1/3, FAN + 2/3 & FAN + full heat output. A thermostatic temperature control is also provided for fine control of heat output at a constant pre-set temperature.



Should the unit overheat, a thermal cutout will operate, shutting down the unit. If this happens, allow a period of time for the unit to cool (approx. 10 minutes) before pressing the RESET using a suitable tool, and restarting the unit.

When switching the unit OFF, it is strongly recommended that the unit is run in the FAN ONLY mode for approx. 10 minutes, in order to cool the heating elements, before switching OFF completely and finally disconnecting from the mains supply.

The thermal cutout may also operate if the heater is shut down without allowing to cool sufficiently. If, subsequently, the machine fails to start, press the RESET using a suitable tool and try again.

MAINTENANCE

If the heater has been used, ALWAYS allow it to cool down for at least 10 minutes (by switching the heater OFF, but leave the fan running), then disconnect from the mains supply before performing any maintenance tasks.

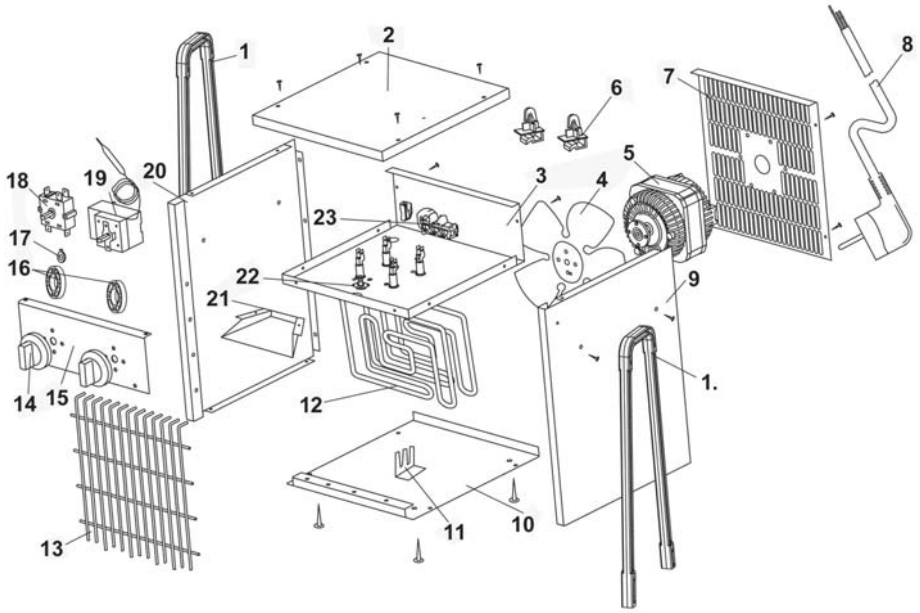
PERIODICALLY

- Disconnect from the mains supply, and use compressed air to clean out the unit. ALWAYS wear a dust mask to perform this operation.
- If there is any serious build up of dirt, wipe thoroughly with a damp cloth. Take care that no moisture enters the heater.
- Inspect the mains cable for damage. Heat damage will cause the cable to stiffen and crack. If this is found, have the cable replaced. Check cable routing and ensure it is well away from the heat source.
- Ensure heating elements are clear of dust (use compressed air to clean the heater if possible).
- Avoid using solvents when cleaning plastic parts, most plastics are susceptible to damage from various types of commercial solvents.
- Refer to your CLARKE dealer if internal maintenance is required. The unit is fitted with tamper-proof screws to discourage users from dismantling the heater.
- When storing the heater, allow it to cool down, then cover it with its plastic bag and place it in its packing box for storage in a dry, ventilated place.

FAULT FINDING

Problem	Possible cause	Remedy
Heater does not operate, although plugged in with the switch and thermostat switched on.	Plug is loose/bad connection.	Pull the plug out & check the connection of the plug and socket.
	Fuse blown	Replace if necessary and investigate cause. If fuse blows repeatedly, consult your CLARKE dealer.
	No power at socket outlet.	Insert the plug in a suitable socket.
Heating element glowing hot.	Input voltage too high or too low.	Use a power supply in accordance with the rating on the label.
	Air inlet grille is blocked.	Ensure the heater is kept away from any objects which could cover the air inlet or be drawn into it.
The unit failed to heat up so only the air fan operated.	Control switch not set at a "HEATING" level.	Turn switch to a heating level.
	Thermostat has tripped.	Turn the thermostat and listen. If there is no CLICK and the thermostat is not damaged, the heater will automatically switch ON when it has cooled down.
	The manually reset cut-out has operated.	Disconnect the power. Take a suitable pin and insert it into the manual RESET hole in the control panel. Press the RESET button and connect the circuit.
Abnormal noise.	The appliance is not level.	Stand heater on a level surface.

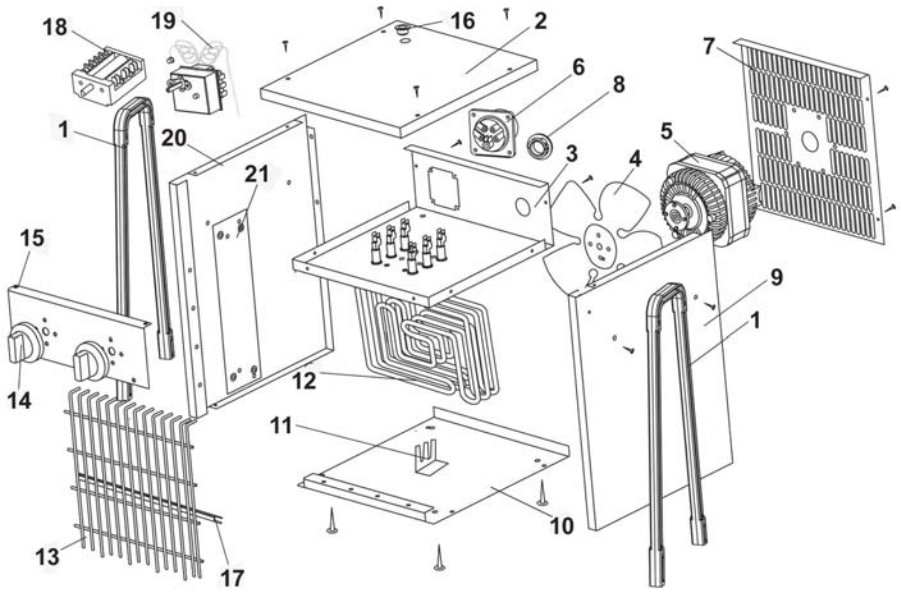
PARTS DIAGRAM DEVIL 6003



NO	CODE	DESCRIPTION	Qty
1	N/A	Support Leg	2
2	N/A	Top Panel	1
3	N/A	Chassis panel	1
4	CXDEV600301	Fan	1
5	CXDEV600302	Motor	1
6	N/A	Retaining clips	2
7	N/A	Rear Panel	1
8	CXDEV600303	Power Cable	1
9	N/A	Side Panel (RH)	1
10	N/A	Base Panel	1
11	N/A	Heater Bracket	1
12	CXDEV600304	Heating Element	2

NO	CODE	DESCRIPTION	Qty
13	CXDEV600305	Front Grille	1
14	CXDEV600306	Fan Control Knob	1
15	N/A	Front Panel	1
16	N/A	Mounting Packer	2
17	N/A	Washer	1
18	CXDEV600307	Power/Fan Speed Controller	1
19	CXDEV600308	Temperature Controller	1
20	N/A	Side Panel (LH)	1
21	N/A	Air Duct	1
22	CXDEV600309	Thermal Cutout	1
23	CXDEV600310	Terminal Block	1

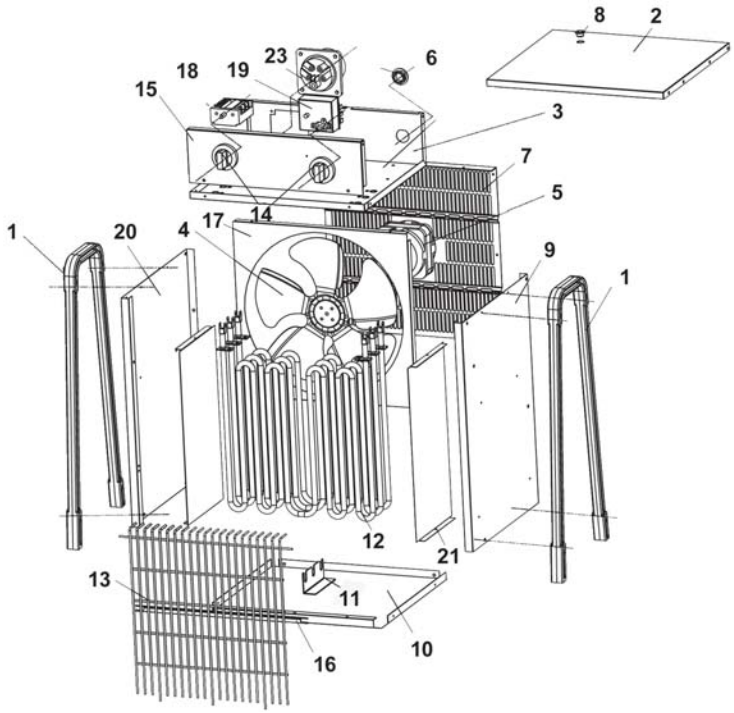
PARTS DIAGRAM DEVIL 6005



NO	CODE	DESCRIPTION	Qty
1	N/A	Support Leg	2
2	N/A	Top Panel	1
3	N/A	Chassis panel	1
4	CXDEV600501	Fan	1
5	CXDEV600502	Motor	1
6	N/A	5-Pin Socket	1
7	N/A	Rear Panel	1
8	N/A	Cable Entry	1
9	N/A	Side Panel (RH)	1
10	N/A	Base Panel	1
11	N/A	Heater Bracket	1
12	CXDEV600503	Heating Element	2

NO	CODE	DESCRIPTION	Qty
13	CXDEV600504	Front Grille	1
14	CXDEV600505	Fan Control Knob	1
15	N/A	Front Panel	1
16	N/A	Plastic Plug	1
17	N/A	Support Bar	1
18	CXDEV600506	Power/Fan Speed Controller	1
19	CXDEV600507	Temperature Controller	1
20	N/A	Side Panel (LH)	1
21	N/A	Heat Shield	2

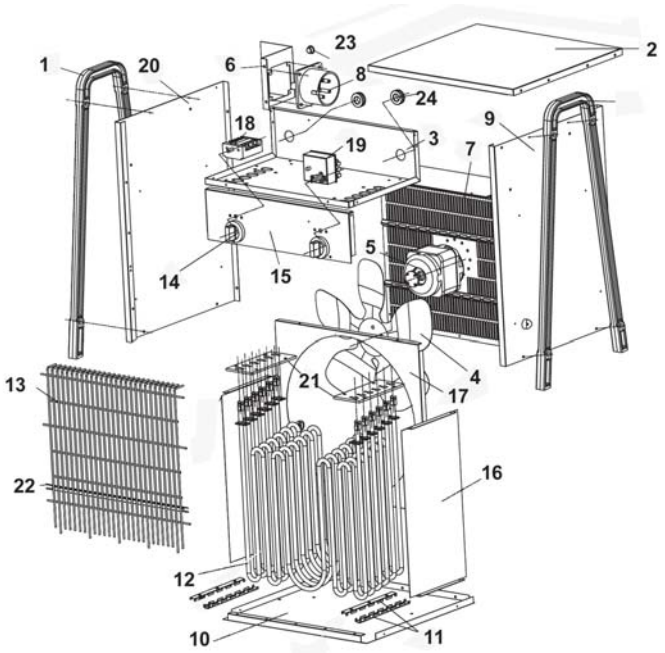
PARTS DIAGRAM DEVIL 6009



NO	CODE	DESCRIPTION	Qty
1	N/A	Support Leg	2
2	N/A	Top Panel	1
3	N/A	Chassis Panel	1
4	CXDEV600901	Fan	1
5	CXDEV600902	Motor	1
6	N/A	Cable Entry	2
7	N/A	Rear Panel	1
8	N/A	Plastic Plug	1
9	N/A	Side Panel (RH)	1
10	N/A	Base Panel	1
11	N/A	Heater Bracket	1

NO	CODE	DESCRIPTION	Qty
12	CXDEV600903	Heating Element	2
13	CXDEV600904	Front Grille	1
14	CXDEV600905	Control Knob	2
15	N/A	Front Panel	1
16	N/A	Support Bar	1
17	N/A	Closing Panel	1
18	CXDEV600907	Power/Fan Speed Controller	1
19	CXDEV600908	Temperature Controller	1
20	N/A	Side Panel (LH)	1
21	N/A	Heat Shield	2

PARTS DIAGRAM DEVIL 6015

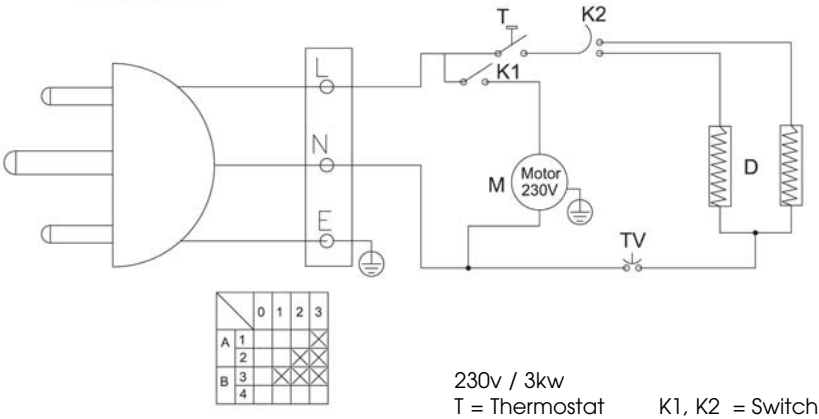


NO	CODE	DESCRIPTION	Qty
1	N/A	Support Leg	2
2	N/A	Top Panel	1
3	N/A	Chassis panel	1
4	CXDEV601501	Fan	1
5	CXDEV601502	Motor	1
6	N/A	Angle Bracket	1
7	N/A	Rear Panel	1
8	N/A	5-Pin Socket	1
9	N/A	Side Panel (RH)	1
10	N/A	Base Panel	1
11	N/A	Heater Bracket	1
12	CXDEV601503	Heating Element	6

NO	CODE	DESCRIPTION	Qty
13	CXDEV601504	Front Grille	1
14	CXDEV601505	Fan Control Knob	1
15	N/A	Front Panel	1
16	N/A	Heat Shield	2
17	N/A	Fan Closing Plate	1
18	CXDEV601506	Power / Fan Speed Controller	1
19	CXDEV601507	Temperature Controller	1
20	N/A	Side Panel (LH)	1
21	N/A	Heater Retainer	2
22	N/A	Supporting bar	1
23	N/A	Plug	1
24	N/A	Bush	2

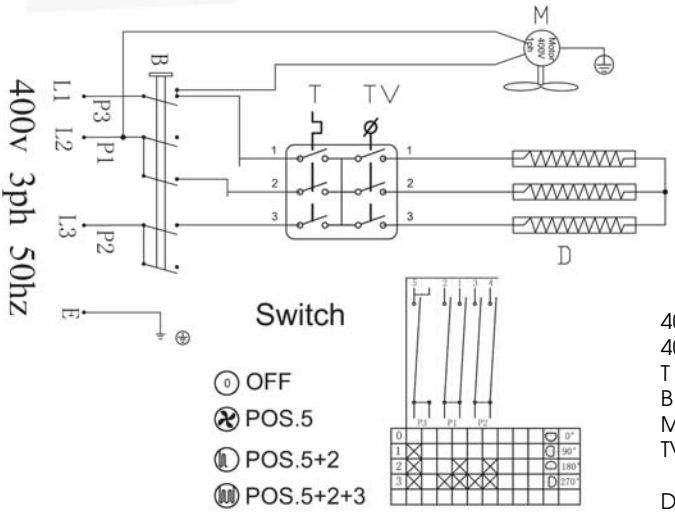
WIRING DIAGRAMS

Model:3KW



230v / 3kw
T = Thermostat
M = Motor
D = Heater Tube
K1, K2 = Switch
TV = Self resetting
themal cut-out

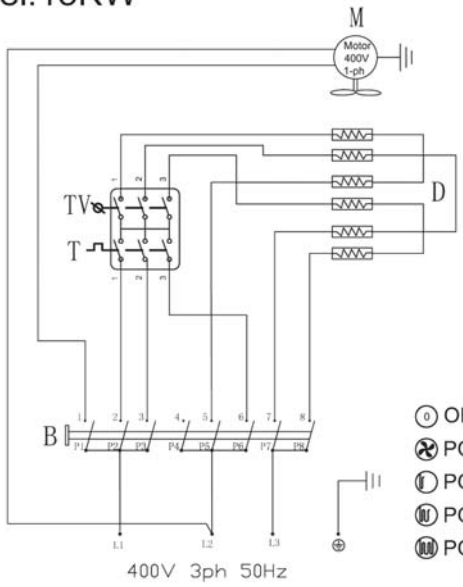
Models: 5 and 9kw

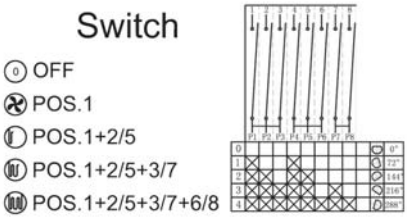


400v / 5kw
400v / 9kw
T = Thermostat
B = Switch
M = Motor
TV =Manually resetting
thermal cut-out
D = Heater Tube

WIRING DIAGRAMS

Model:15KW





400v / 15kw
T = Thermostat
B = Switch
M = Motor
TV=Manually resetting
thermal cut-out
D =Heater Tube

TECHNICAL SPECIFICATION

Item	Published Specification			
Model	Devil 6003	Devil 6005	Devil 6009	Devil 6015
Part No	6925220	6925225	6925230	6925235
Weight	5.5kg	7.0kg	9.0kg	14.4kg
Dimensions (dxwxh) mm	295 x 265 x 425	295 x 305 x 425	350 x 335 x 465	400 x 345 x 535
Input Wattage(kw)	1.5 (setting 1) 3.0 (setting 2)	2.5 (setting 1) 5.0 (setting 2)	4.5 (setting 1) 9.0 (setting 2)	95w (fan only) 5kw (setting 1) 10kw (setting 2) 15kw (setting 3)
Input Amperage	6.39 (setting 1) 12 (setting 2)	7.2	13	21.65
Input Voltage	230v / 50 Hz	400v / 50 Hz	400v / 50 Hz	400v / 50 Hz
Fuse rating	13A	16A	16A	32A
Air Output	512 m^3/h	557 m^3/h	773 m^3/h	1559 m^3/h
Sound Level	51 or<70dB (A)	51 or<70dB (A)	59 or<70dB (A)	64 or<70dB (A)
Insulation Class	IPX4	IPX4	IPX4	IPX4
Heat Output	3kw	5kw	9kw	15kw
Operating Temperature	0-40°C	0-40°C	0-40°C	0-40°C

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

For parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We declare that this product complies with the following directives:

2004/108/EC *Electromagnetic Compatibility directive*

2006/95/EC *Low Voltage Equipment directive*

2002/95/EC *Restriction of Hazardous substances*

The Following Standards have been applied to the product:

EN 55014-1:2000/A1:2001/+A2:2002 *EN 55014-2 1997/+A1:2001*

EN 61000-3-2:2000/+A2:2005 *EN 61000-3-3:1995+A1:2001/+A2:2005*

EN 60335-1:2002+A11,A1:04+A12+,A2:06 *EN 60335-2-30:2003+A1:04*

EN 50366:2003+A1:06

The technical documentation required to demonstrate that the products meet the requirements of the Low Voltage Equipment directive has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2007

Product Description: Electric Fan Heaters (3kW, 5kW, 9kW,15kW)

Model number(s): *Devil 6003,6005,6009,6015*

Serial / batch Number: Current Manufacture.

Date of Issue: 02/09/2008

Signed

A.C. AIKEN

Senior Manager Clarke International.

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to industrial, Plus air tools, spray guns and accesories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need

WELDERS
Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Cranes, body repair kits, transmission jacks for all types of workshop use.

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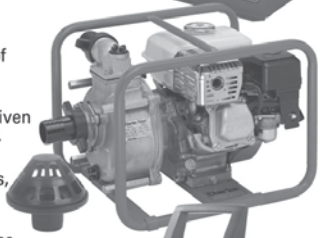
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, cordless drill sets, saws and sanders..

STARTERS/CHARGERS
All sizes for car and commercial use.



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